

Project: Nanoscience and Biotech Research

Recipient: Tennessee State University, McMinnville, TN

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McMinnville, TN 37110

Subcommittee: Agriculture

Amount requested: \$4,000,000

Project description: The Nanoscience and Biotechnology Research Programs and Facilities at Tennessee State University provide a hub of multidisciplinary interaction and collaboration to solve today's complex problems. TSU's research will provide part of the technical and scientific bases for research relevant to the nanotechnology initiative in the U.S. while addressing America Competes in the state-of-the-art training of the next generation of scientists. Establishing this first phase of core laboratories stimulated the growth of a coordinated program that promotes research, develops technical applications, increases science literacy, and creates more effective collaboration among universities, primary and secondary schools, and community leaders and consumers. As one of the nation's premier HBCUs with nationally recognized research and development programs in place, funding of this initiative is allowing TSU to maintain exemplary programs, while keeping pace with novel developments in biotechnology and in the rapidly emerging field of nanotechnology – particularly as these developments relate to the Department of Defense and its activities. The University has existing relationships with the Air Force (materials and sensors), Navy (power systems), and Army (sensors). With this project, the research and application areas that already exist in nanoscience and biotechnology at TSU are being strengthened allowing more contributions to DOD mission-critical research and technology development in the future.

The scientific research funded by this project is state-of-the-art scientific in areas intersecting at nanosciences and biotechnology, assuring critical solutions to pressing needs addressed by the America Competes Act.